

SERVICE INFORMATION

STARTING WITH SERIAL NO. 10D01

ELECTRICAL SPECIFICATIONS

FREQUENCY RESPONSE

+0 to -0.5dB from 20Hz to 20,000Hz

DISTORTION

Less than 0.1% at 2.5 volts, 20Hz to 20,000Hz

INPUT SENSITIVITY (phono 1, phono 2, tape head)

2 millivolts for 2.5 volts output at lkHz

INPUT SENSITIVITY (aux, tape, tuner)

0.20 volts for 2.5 volts output

HUM AND NOISE (phono 1, phono 2, tape head)

70dB below 10 millivolt input

HUM AND NOISE (aux, tape, tuner)

75dB below rated output

OUTPUT (main)

2.5 volts with rated input. Up to 10 volts can be developed without distortion.

OUTPUT (tape)

0.20 volts with rated input. Phono input signal of 10 millivolts produces 1.2 volts output.

OUTPUT (center channel)

2.5 volts with rated input on both channels. A level control adjusts output from -6dB to +6dB with respect to main output.

BASS CONTROL

<u>+</u>18dB at 20Hz

TREBLE CONTROL

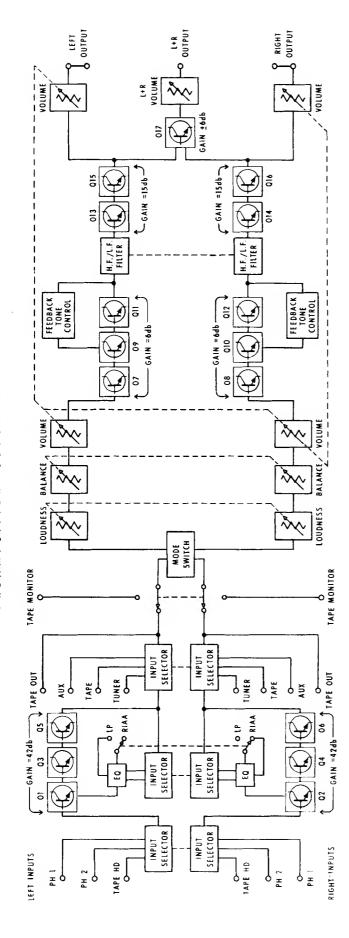
+18dB at 20,000Hz

LF FILTER

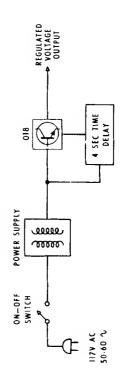
Flat or roll off below 50Hz

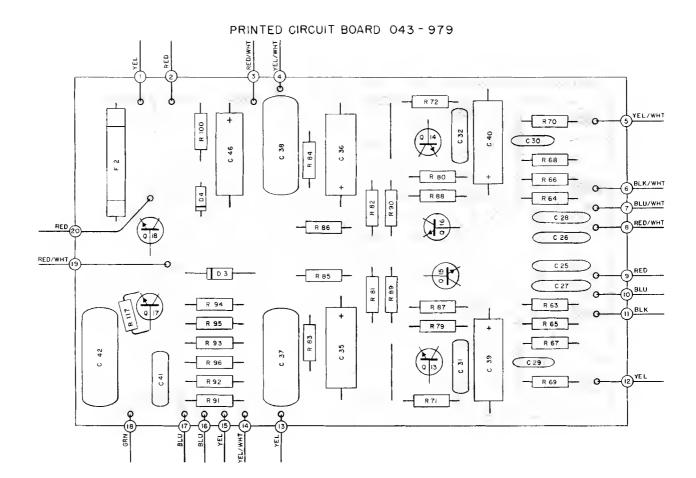
HF FILTER

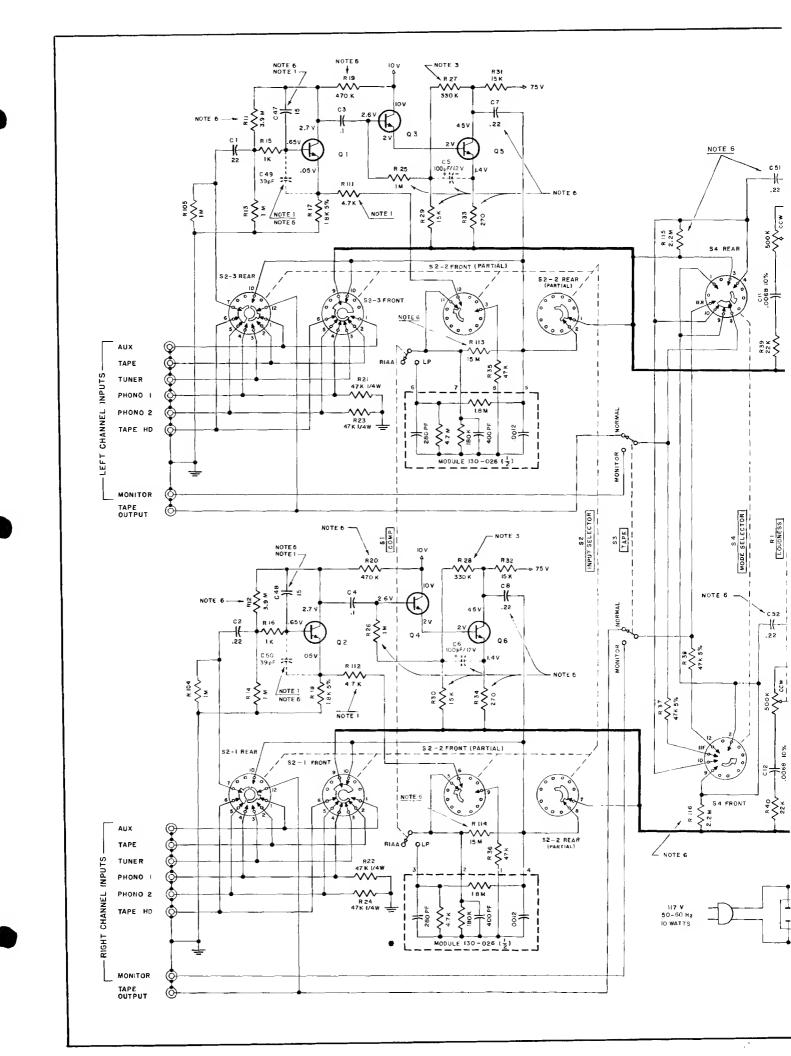
Flat or roll off above 5000Hz

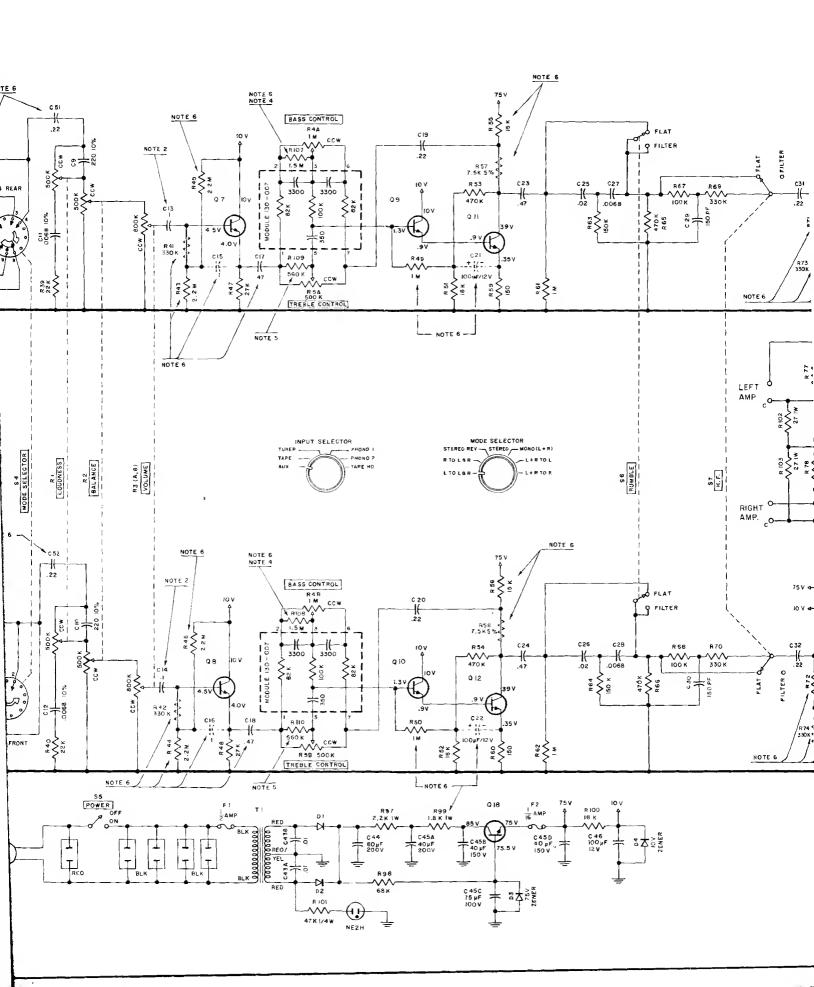


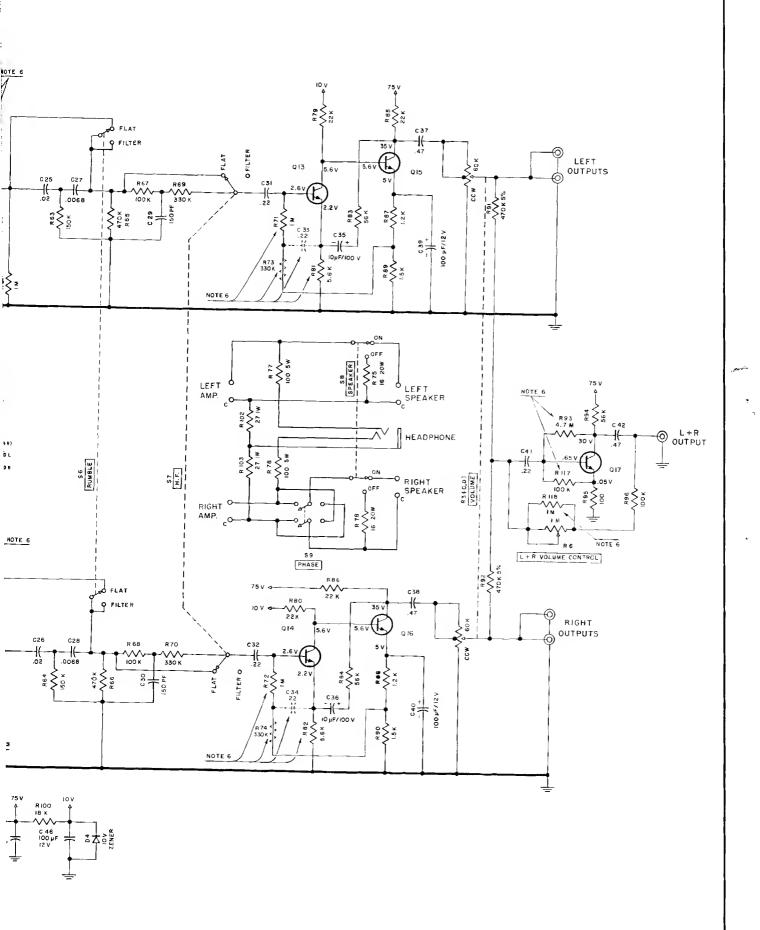
POWER SUPPLY DELAY CIRCUIT



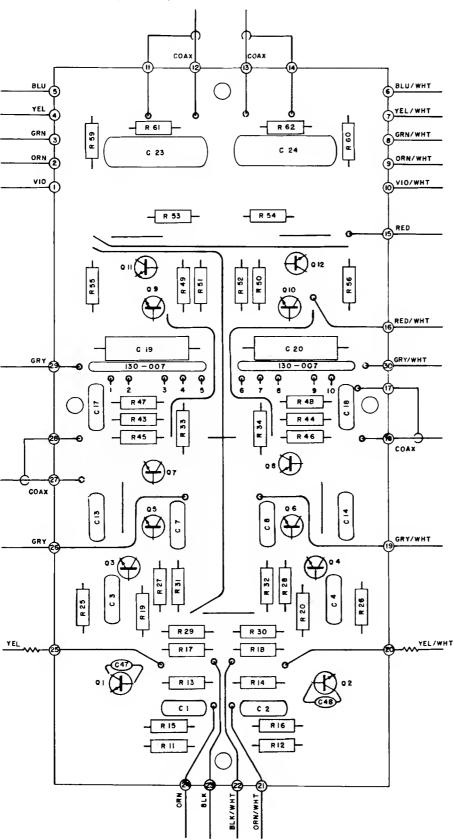








PRINTED CIRCUIT BOARD 043 - 978



- 1. C47, C48, C49, units with ser
- 2. Cl3 and Cl4 ar 36D00.
- 3. R27 & R28 are
- 4. R107 & R108 ar 19D00.
- R109 & R110 ar 19D00.
- 6. In units with

R25, R26, R49, R19, R20, R43, R41, R42, R57, R113, R114, R1 R11 & R12 are R29 & R30 are R33 & R34 are R55 & R56 are R81 & R82 are R107 & R108 ar R93 is 2.2M R99 is 2.2K C5, C6, C15, C7 & C8 are OC17 & C18 are

Unless otherwichms, 1/2 watts smaller than 1 than 1 are in

C47 & C48 are C51 & C52 are

The terminal recircuit board

All voltages a

- 1. Use
- 2. All
- 3. AC in
- 4. No start from 5. From

SCHEMATIC NOTES

- 1. C47, C48, C49, & C50 and R111 & R112 do not appear in units with serial numbers below 43D01.
- 2. C13 and C1 μ are .22 μ F in units with serial numbers below 36D00.
- 3. R27 & R28 are 470K in earlier units.
- 4. R107 & R108 are 2.2M in units with serial numbers below 19D00.
- 5. R109 & R110 are not in units with serial numbers below 19D00.
- 6. In units with serial numbers below 51D55:

R25, R26, R49, R50, R71 & R72 are 100K R19, R20, R43, R44, R45 & R46 are 1M R41, R42, R57, R58, R73 & R74 are used R113, R114, R115, R116, R117 & R118 are not used R11 & R12 are 4.7M R29 & R30 are 27K R33 & R34 are 6800 R55 & R56 are 7.5K R81 & R82 are 12K R107 & R108 are 560K R93 is 2.2M R99 is 2.2K C5, C6, C15, C16, C21, C22, C33, C34, C49 & C50 are used C7 & C8 are 0.1 μF C17 & C18 are .22µF C47 & C48 are 6.8pF C51 & C52 are not used

Unless otherwise specified, resistance values are in ohms, 1/2 watt, and 10% tolerance. Capacitance values smaller than 1 are in microfarads (μF); values greater than 1 are in picofarads (pF).

The terminal numbering of rotary switches and printed circuit board wires is for reference only.

All voltages are measured under the following conditions:

- Use of an 11 megohm input impedance VTVM
- 2. All voltages +10% with respect to ground
- 3. AC input at 117 volts, 50/60 cycles
- 4. No signal at input terminals
- 5. Front panel controls at normal positions

REPLACE

All parts not listed able from radio parts

Replacement parts may by PART NUMBER from:

Symbol

McIntosh I Customer S 2 Chambers Binghamtor (telephone

CAF

Number	Des
01,2	Mylar .2
c3,4	Mylar .1
C7,8	Mylar .2
C17,18	Mylar .4
C19,20	Mylar .2
C23,24	Mylar .4
C31,32	Mylar .2
C33,34	Mylar .2
035,36	Elect. 10
037,38	Mylar .4
039,40	Elect. 10
C41	Mylar .2
C142	Mylar .4
c146	Mylar 10
051,52	Mylar .2
	I
D1,2	Si. rectif
D 3	Zener diod
DΉ	Zener diod
Fl	Fuse 1/2 a
F2	Fuse 1/16
F2	Fuse 1/16
	POTEX

R1,2

R1,2

R3

 R_{\perp}

Balance & (with flat

Balance & (with knur

Volume con

Bass contr (with flat

REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory Inc. Customer Service Department 2 Chambers Street Binghamton, New York 13903 (telephone 607-723-3512)

CAPACIT**O**RS

		OALACII	OILD		
Symbol Number		Descrip	tion		Part Number
C1, 2	Mylar	.22µF	20%	250 v	064-043
c 3,4	Mylar	.lµF	20%	250 V	064-037
c7, 8	Mylar	.22µF	20%	250 v	064-043
C17, 18	Mylar	•47µF	20%	250 v	064-045
C 19,20	Mylar	.22µF	20%	250V	064 - 043
c 23 , 2կ	Mylar	.47µF	10%	1007	064-019
C31,32	Mylar	.22µF	20%	250 V	064-043
c 33,34	Mylar	.22µF	20%	250V	064-043
c 35,36	Elect.	10 µF		100V	066-007
c 37,38	Mylar	.47µF	10%	100V	064 - 019
c 39,40	Elect.	100µF		15 V	066-127
с µ1	Mylar	.22µF	20%	250 v	064-043
с µ2	Mylar	.47 µF	10%	100V	064-019
c 46	Mylar	100µF		15 v	066-127
c 51 , 52	Mylar	.22µF	20%	250 V	064-043
		DIODE	S		
D1,2	Si. rectifier			070-015	
D 3	Zener diode 75V			070-025	
D)4	Zener d	iode l	OV		070-024
		FUSE	S		
Fl	Fuse 1/	2 amp			089-009
F 2	Fuse 1/16 amp (pig-tail)			089-010	
F 2	Fuse 1/	16 amp	(cartı	ridge)	0 89 - 012
	PΩ	ጥፑእጥፐOM	e sarta		
R1,2	POTENTIOMETERS Balance & loud control (with flat shaft)			134-178	
R1, 2	Balance & loud control (with knurled shaft)			134-101	
R 3	Volume control			134-074	
RŲ,	Bass control (with flat shaft)			134-180	

$Rl_{f 4}$	Bass control	134-080	
	(with knurled shaft)		
R5	Treble control (with flat shaft)	134-181	
R5	Treble control (with knurled shaft)	134-081	
R 6	L & R volume control	134-082	
	RESISTORS		
R75,76	Wirewound 16Ω 10% 20W	139-022	
R77,7 8	Wirewound 100Ω 10% 5W	139-008	
R102,103	Wirewound 27Ω 10% 1W	139-028	
	SWITCHES		
S1	Compensation switch	148-007	
S2	Input selector switch	146-067	
S3	Tape monitor	148-007	
84	Mode selector switch	146-107	
85	Power switch	148-003	
s6	LF switch	148-007	
S 7	HF switch	148-007	
S 8	Speaker switch	148-007	
S9	Phase switch	148-007	
	TRANSISTORS		
Q1,2	Si. NPN transistor	132-503	
Q3,4	Si. NPN transistor	132-503	
Q5,6	Si. NPN transistor	132-026	
Q7,8	Si. NPN transistor	132-504	
Q9,10	Si. NPN transistor	132-501	
Q11,12	Si. NPN transistor	132-026	
Q13,14	Si. NPN transistor	132-501	
Q15,16	Si. NPN transistor	132-026	
Q17	Si. NPN transistor	132-502	
Q 18	Si. NPN transistor	132-014	
	TRANSFORMER		
Tl	Power transformer	043 - 532	
		,= 22 *	
	MODULES Tone control	130-007	
	Equalization	130-007	
	-4marramaron	1,0-020	
	LAMPS		
	Neon bulb	058-009	
FRONT PANEL AND TRIM			
	Front Panel (complete)	043 -3 60	
	Front panel glass	043-877	

End cap (right)	018-043
End cap (left)	018-044
Volume control knob	043-253
Input selector knob	043 - 253
Mode selector knob	043 - 253
Balance knob	090-009
Loudness control kmob (for flat shaft)	043-625
Loudness control knob (for knurled shaft)	090-008
Bass knob, front (for flat shaft)	043-625
Bass kmob, front (for kmurled shaft)	090-008
Bass knob, rear	090-009
Treble knob, front (for flat shaft)	043 - 625
Treble knob, front (for knurled shaft)	090-008
Treble kmob, rear	090-009
L & R gain control knobs	090-013
MOUNTING SYSTEM	
Shelf bracket (right)	043 - 592
Shelf bracket (left)	043-593
Mounting template #100	038-179
Hardware package	043-452
MISCELLANEOUS ITEMS	
Line cord	170-021
Fuseholder	178-001
Shipping carton	043-950
Owners manual	038-035
Plastic feet	017-041
Shorting plug	127-001
Audio cable (6')	170-015